

Modern Thermoanalytical systems and its benefit for quality control and development

W. Surer

Lab Plus AG, CH-8645 Jona, Switzerland

Thermoanalytical methods are used to qualify the increasing choice of materials. They are of high importance to control the quality as well as for studies to improve the products. This leads to materials with higher performance in different fields, such as polymer-, food-, cosmetic-, pharmaceutical industries and many others.

With a few analysis of samples it is demonstrated, that these powerful analytical methods are qualified not only because of the fast analysis time but also because of their precision. These methods are predestinated due to the fact that all products undergo changes, which become apparent through their chemical, physical and mechanical properties.

As a special high light the use of the Hyper DSC Technique and its excellent performance is presented. This method is only possible with a power compensated DSC and its important advantages in comparison with the classical heat flux DSC. Hyper DSC Technique is applied more and more in all kind of industries as the results can be achieved in a very short time and shows therefore the material in its original status.